

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number
WO 2005/089829 A2

(51) International Patent Classification⁷: **A61L 31/00**

(74) Agent: **VOSSIUS & PARTNER**; Sieberstrasse 4, 81675 München (DE).

(21) International Application Number:
PCT/EP2005/002506

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 9 March 2005 (09.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04005708.5 10 March 2004 (10.03.2004) EP

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **SCIL TECHNOLOGY GMBH** [DE/DE]; Fraunhoferstr. 15, 82152 Planegg (DE).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **HELLERBRAND, Klaus** [DE/DE]; Sonnenstrasse 5, 82269 Geltendorf (DE). **SIEDLER, Michael** [DE/DE]; Steinsdorferstrasse 8, 80538 München (DE). **SCHÜTZ, Andreas** [DE/DE]; Jahnstrasse 11, 82152 Kreiling (DE). **SCHIMKAT, Bernd** [DE/DE]; Gräfstrasse 85, 81241 München (DE). **WIEDENMANN-SCHLEMBACH, Karin** [DE/DE]; Adolf-Butenandt-Strasse 3, 82152 Planegg (DE).

Published:

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COATED IMPLANTS, THEIR MANUFACTURING AND USE THEREOF

(57) Abstract: The present invention relates to a method of coating of a device, preferably implants, with a substance comprising the steps of (a) contacting said device into a solution of said substrate or substance, and (b) drying said device while being submerged in said solution. The present invention also relates to a packaging container for a device, preferably an implant. Said packaging container being adapted such that said device is coatable within said packaging container. Moreover, the present invention relates to a method of coating the inner surfaces of a packaging container for a device, preferably implants, to be coated by a substance, comprising the steps of (a) siliconizing said inner surfaces of said container using a silicone emulsion, and (b) heat-curing to form a baked-in silicone layer on said inner surfaces of said container. Moreover said packaging container relates to the use of said method of coating a packaging container for improving and/or controlling the distribution coefficient of the substance to be coated on said device between said container and said device. Furthermore, the present invention encompasses a coated device, preferably an implant, obtainable by a method according to the present invention. The present invention also relates to the use of said method of coating devices for improving the homogeneous distribution of the coating on the device. Finally, the present invention relates to the use of said method of coating a packaging container for improving and/or controlling the distribution coefficient of the substance to be coated on said device between said container and said device.



WO 2005/089829 A2